## **CLAIMS**

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## Status of the Claims

Claims 1-31 were originally filed. Claims 14-16 and 21-31 were previously cancelled. Claims 1, 3, 5-13, 17-18, and 20 were previously amended. Herein, Applicant amends claims 1 and 18 without prejudice or disclaimer of the subject matter therein. Applicant additionally cancels claims 4, 6 and 10 also without prejudice or disclaimer of the subject matter therein and specifically reserves the right to file one or more divisional applications on the amended or cancelled subject matter.

## In the Claims

- 1. (Presently Amended) A method for preparing a protein-polymer conjugate comprising:
- (a) contacting an insulin protein in an aqueous solution with an amino-reactive derivative selected from the group consisting of an aldehyde, a N-hydroxy succinimide, a PNP-carbonate, and a benzotrizole terminated hydrophilic polymer of a hydrophilic polymer thereof in the presence of at least one organic solvent selected from the group consisting of ethanol, methanol, DMSO, dioxane, DMF, and NMP and at least one metal chelator selected from the group consisting of metal ion chelators, EDTA, deferoxamine (DEF), diethylenetriamine pentaacetic acid (DTPA), and bis(aminoethyl)glycolether N,N,N',N'-tetraacetic acid (EGTA) to form a conjugate of the protein and the polymer; and
  - (b) isolating the conjugate.
- (Original) The method of claim 1, wherein the insulin protein comprises human insulin.
- 3. (Previously Presented) The method of claim 1, wherein the hydrophilic polymer is selected from the group consisting of polyethylene glycol, polyethylene glycol/polypropylene glycol copolymers, polyoxyethylated glycerol, and linear, branched and amino-reactive derivatives thereof.

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- 4. (Canceled)
- 5. (Previously Presented) The method of claim 1, wherein the hydrophilic polymer and insulin protein are contacted at a molar ratio of about 10:1-1:1.
- 6. (Canceled)
- 7. (Previously Presented) The method of claim 1, wherein the organic solvent is present at a concentration of about 0.1 to 10%.
- 8. (Previously Presented) The method of claim 1, wherein the insulin protein and hydrophilic polymer are contacted at a protein concentration of about 0.1 -5.0%.
- 9. (Previously Presented) The method of claim 1, wherein the insulin protein and hydrophilic polymer are contacted at a pH of about 5.0-7.5.
- 10. (Canceled)
- 11. (Previously Presented) The method of claim 1, wherein the chelator is present at a concentration of about 0.1-10 mM.
- 12. (Previously Presented) The method of claim 1, wherein the insulin protein and hydrophilic polymer are contacted at a temperature of about 4-50° C.
- 13. (Previously Presented) The method of claim 1, wherein the method further comprises the step of quenching formation of the conjugate prior to isolating the conjugate.

14-16. (Canceled)

- 17. (Previously Presented) The method of claim 1, further comprising the step of encapsulating the conjugate in a biodegradable polymer.
- 18. (Presently Amended) A method for preparing an insulin PEG conjugate comprising:
  - (a) contacting insulin with PEG in an aqueous solution in the presence of at least one organic solvent selected from the group consisting of ethanol, methanol, DMSO, dioxane, DMF, and MP and at least one metal chelatorselected from the group consisting of metal ion chelators, EDTA, deferoxamine (DEF), diethylenetriamine pentaacetic acid (DTPA), and is (aminoethyl) glycolether N, N, N', N'-tetraacetic acid (EGTA) to form a conjugate of the insulin and PEG; and
  - (b) isolating the conjugate.
- 19. (Original) The method of claim 18, wherein the insulin comprises human insulin.
- 20. (Previously Presented) The method of claim 18 wherein the PEG comprises an aminoreactive PEG derivative selected from the group consisting of an aldehyde, a Nhydroxy succinimide, a PNP carbonate, and a benzotrizole terminated hydrophilic polymer.

21-31. (Canceled)